

## EAST Search History

Ref #	Hits	Search Query	Dbs	Default Operator	Plurals	Time Stamp
S1	4453	347/54-62.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:07
S2	597	S1 and silverbrook.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:07
S3	30	S2 and rotatable	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:24
S4	17	S2 and concentric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:17
S5	3817	silverbrook.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:17
S6	21	S5 and ((rotatable rotating rotate) with (heater heat heating resistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:25
S7	103049	((rotatable rotating rotate) with (heater heat heating resistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:28
S8	450	S7 and (printhead print-head (print adj head))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:22
S9	198	S8 and (coaxial co-axial (co adj axial) coplanar co-planar (co adj planar) plane concentric arcuate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:24
S10	4	S9 and 347/62.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:25

## EAST Search History

S11	7	S9 and 347/54-62.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:25
S12	22929	((rotatable rotating rotate) with (heater resistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:29
S13	111	S12 and (printhead print-head (print adj head))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:28
S14	69837	((rotatable rotating rotate revolve revolving revolvable moving movable move) with (heater resistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:30
S15	20	S14 and 347/62.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 08:49
S16	759	(heater resistor) with (ring) with (inside)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:37
S17	2096	(heater resistor) with (ring) with (inside inner)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:38
S18	146	S17 and (thermal-expansion (thermal adj expansion))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:38
S19	1	S18 and (printhead print-head (print adj head))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:51
S20	65394	(printhead print-head (print adj head))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:51

## EAST Search History

S21	8990	S20 and bubble	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:51
S22	7232	S21 and ((heater resistor) (rotating rotation spin spinning rotate turn turning revolve revolving revolution))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 15:53
S23	846	S21 and ((heater resistor) with (rotating rotation spin spinning rotate turn turning revolve revolving revolution))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:05
S24	499	S23 and (concentric coplanar co-planar coaxial co-axial planar axial ring)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:06
S25	426	S21 and ((heater resistor) with (rotating rotation spin spinning rotate turn turning revolve revolving revolution))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:05
S26	358	S25 and (concentric coplanar co-planar coaxial co-axial planar axial ring)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:06
S27	42	S2 and (rotatable rotating)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:24
S28	1405	S5 and (rotatable rotating rotate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:25
S29	512	S28 and bubble	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:26
S30	512	S29 and (printhead print-head (print adj head))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:26

## EAST Search History

S31	148	S30 and arcuate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:27
S32	2	S30 and concentric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:27
S33	1	S30 and co-axial	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:27
S34	146	S30 and ring	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/17 16:28
S35	473	S30 and circular	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 07:26
S36	1	("4797692").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/02/21 07:26
S37	1	("4549191").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/02/21 07:30
S38	1	("5706041").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/02/21 07:43
S39	1	("5831648").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/02/21 07:53
S40	1	("5710070").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/02/21 07:53
S41	1	("4894664").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/02/21 08:51

## EAST Search History

S42	65468	(printhead print-head (print adj head))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 08:51
S43	2572	S42 and (thermal adj expansion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 08:52
S44	1508	S43 and (heater resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 09:10
S45	42	S44 and torsion	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 09:09
S46	1098	S44 and (torsion bend bending flex flexing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 09:45
S47	462	S43 and ((heater resistor) with (torsion bend bending flex flexing))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 09:45
S48	388	S47 and (coplanar co-planar planar laminar concentric co-axial coaxial axial)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 09:49
S49	62	S43 and ((heater resistor) with (torsion rotation rotating flex flexing))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:17
S50	1175	S44 and (torsion bend bending flex flexing rotating rotation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 09:45
S51	464	S43 and ((heater resistor) with (torsion bend rotation rotational bending flex flexing))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 09:47

## EAST Search History

S52	188	S51 and omega	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 09:47
S53	390	S51 and (coplanar co-planar planar laminar concentric co-axial coaxial axial)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 10:17
S54	1	("6460961").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/02/21 10:17
S55	4	("4339762"   "4965594"   "5742307"   "6273553").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/21 10:17
S56	2	("6460961").URPN.	USPAT	OR	ON	2006/02/21 10:54
S57	168	347/62.ccls.	USPAT	OR	ON	2006/02/21 12:06
S58	30	S57 and (thermal adj expansion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:11
S59	33	S57 and (rotation rotating)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:11
S60	277	S42 and ((heater resistor) near5 (thermal adj expansion))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:23
S61	140	S60 and ring	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:20
S62	190	S60 and (coplanar planar co-planar concentric coaxial co-axial laminar axial)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:21
S63	91	S42 and ((heater resistor) with (thermal adj expansion) with (rotation rotating rotatable bend bending bendable flex flexing flexible torsion twist twisting twistable screwing screw))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:27

## EAST Search History

S64	53	S42 and ((heater resistor) with (thermal adj expansion) with (rotation rotating rotatable flex flexing flexible torsion twist twisting twistable screwing screw))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:28
S65	656	S42 and ((heater resistor) with (rotation rotating rotatable flex flexing flexible torsion twist twisting twistable screwing screw))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:29
S66	12	S42 and ((heater resistor) with (rotation rotating rotatable flex flexing flexible torsion twist twisting twistable screwing screw) with (coplanar planar co-planar concentric coaxial co-axial laminar axial))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:30
S67	656	S42 and ((heater resistor) with (rotation rotating rotatable flex flexing flexible torsion twist twisting twistable screwing screw))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:46
S68	319	S67 and bubble	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:31
S69	61	S42 and ((heater resistor) with (concentric))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:26
S70	10	S69 and (crack cracking)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 12:51
S71	3828	silverbrook.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:26
S72	599	S71 and 347/54-62.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:26
S73	4	S72 and rotatable.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:28

## EAST Search History

S74	18	S72 and rotation.clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:39
S75	321	347/58.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:40
S76	221	S75 and (heater resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:41
S77	1	S75 and ((heater resistor) with (rotat\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:42
S78	1	S75 and ((heater resistor) with (rotat\$4 splay\$3 torsion))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:42
S79	5	S75 and ((heater resistor) with (rotat\$4 splay\$3 torsion flex\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:44
S80	88	347/54-62.ccls. and ((heater resistor) with (rotat\$4 splay\$3 torsion flex\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:46
S81	115	347/54-62.ccls. and ((heater resistor) with (rotat\$4 splay\$3 torsion cylind\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:55
S82	135260	(printhead print-head (print adj head) (recording adj head) recording-head)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:56
S83	26812	S82 and (resistor heater (heating adj element))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:57



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S84	583	S82 and ((resistor heater (heating adj element)) with (rotat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:57
S85	356	S84 and thermal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 13:59
S86	97	S85 and bubble	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:13
S87	4457	347/54-62.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:13
S88	5	S87 and ((heater resistor (heater adj element)) with (coplanar planar axial\$2 coaxial\$2 co-planar co-axial\$2 concentric\$3 cylind\$5) with (bend\$3 flex\$4 shift\$4 rotation rotatable rotated))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:17
S89	186	S87 and ((heater resistor (heater adj element)) same (coplanar planar axial\$2 coaxial\$2 co-planar co-axial\$2 concentric\$3 cylind\$5) same (bend\$3 flex\$4 shift\$4 rotation rotatable rotated))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:22
S90	32919	((heater resistor (heater adj element)) same (coplanar planar axial\$2 coaxial\$2 co-planar co-axial\$2 concentric\$3 cylind\$5) same (bend\$3 flex\$4 shift\$4 rotation rotatable rotated))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:22
S91	4033	((heater resistor (heater adj element)) with (coplanar planar axial\$2 coaxial\$2 co-planar co-axial\$2 concentric\$3 cylind\$5) with (bend\$3 flex\$4 shift\$4 rotation rotatable rotated))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:26
S92	39	S91 and (printhead print-head (print adj head) (recording adj head) recording-head)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:23
S93	319	347/62.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:26

## EAST Search History

S94	1	S93 and ((flex\$4) with (plan\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:26
S95	4	S93 and ((flex\$4) with (lateral laminar laminate direction parallel coplanar co-planar coaxial co-axially coaxially co-axial concentric concentrically))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:28
S96	4	S93 and ((flex flexing flexible) with (lateral laminar laminate direction parallel coplanar co-planar coaxial co-axially coaxially co-axial concentric concentrically))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:29
S97	12	S93 and ((flex flexing flexible bend bending bendable) with (lateral laminar laminate direction parallel coplanar co-planar coaxial co-axially coaxially co-axial concentric concentrically))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:29
S98	24	S93 and ((flex flexing flexible rotating rotated rotatable rotate) with (lateral laminar laminate direction parallel coplanar co-planar coaxial co-axially coaxially co-axial concentric concentrically))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:32
S99	24	S93 and ((flex flexing flexible rotating rotated rotatable rotate twist twisting twisted twistable) with (lateral laminar laminate direction parallel coplanar co-planar coaxial co-axially coaxially co-axial concentric concentrically))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:32
S10 0	28	S93 and ((flex flexing flexible rotating rotated rotatable rotate twist twisting twisted twistable screw screwing screwed screwable) with (lateral laminar laminate direction parallel coplanar co-planar coaxial co-axially coaxially co-axial concentric concentrically))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:33
S10 1	8	S93 and ((flex flexing flexible rotating rotated rotatable rotate twist twisting twisted twistable screw screwing screwed screwable) with (resistor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:34
S10 2	12	S93 and ((flex flexing flexible rotating rotated rotatable rotate twist twisting twisted twistable screw screwing screwed screwable) with (heater))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:39
S10 3	34	S93 and ((flex flexing flexible rotating rotated rotatable rotate twist twisting twisted twistable screw screwing screwed screwable) with (element))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:39

## EAST Search History

S10 4	54	S93 and (thermal adj expansion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:42
S10 5	755	S87 and (thermal adj expansion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:43
S10 6	39	S87 and ((thermal adj expansion) with resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:44
S10 7	242	S87 and ((thermal adj expansion) with ( heater resistor (heating adj element) (heater adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/21 14:44
S10 8	319	347/62.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 07:36
S10 9	1	S108 and (rotatable adj heater)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 07:37
S11 0	0	S108 and (rotatable adj heating)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 07:37
S11 1	0	S108 and (rotatable adj resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 07:37
S11 2	0	S108 and (rotatable with resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 07:37
S11 3	55821	(rotatable flexible rotating rotate flexing flex rotated torque torsion twist twisting twisted spin spinning) with (resistor heater (heating adj element))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 08:04

## EAST Search History

S11 4	1915	S113 and bubble	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 07:39
S11 5	679	S114 and ink	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 07:39
S11 6	622	S115 not silverbrook.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 07:39
S11 7	462	S116 and (printhead print-head (print adj head) recording-head (recording adj head))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 08:04
S11 8	3566	(rotatable flexible rotating rotate flexing flex rotated torque torsion twist twisting twisted spin spinning circular concentric coplanar) adj (resistor heater (heating adj element))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 08:04
S11 9	64	S118 and (printhead print-head (print adj head) recording-head (recording adj head))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 08:38
S12 0	24	("1941001"   "3373437"   "3416153"   "3946398"   "4164745"   "4166277"   "4275290"   "4293865"   "4312009"   "4490728"   "4580158"   "4710780"   "4737803"   "4748458"   "4751532"   "4751533"   "4752783"   "4980703"   "5059989"   "5371527"   "5420627").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/23 08:14
S12 1	21	("5905517").URPN.	USPAT	OR	ON	2006/02/23 08:16
S12 2	135310	(printhead print-head (print adj head) recording-head (recording adj head))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 08:38
S12 3	10	S122 and ((rotating rotate rotated rotatable) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 08:44
S12 4	0	S122 and ((revolv\$3) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 08:44

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S12 5	125	S122 and ((expan\$4) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:39
S12 6	37	S122 and ((flex\$4) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:41
S12 7	0	S122 and ((torsion) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:41
S12 8	1	S122 and ((torque) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:41
S12 9	0	S122 and ((torquing) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:41
S13 0	0	S122 and ((twist\$4) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:42
S13 1	4	S122 and ((spin\$4) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:42
S13 2	145	S122 and ((turn\$4) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:56
S13 3	15	S122 and ((circle circular) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:57
S13 4	0	S122 and ((coplanar) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:57

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S13 5	0	S122 and ((co-planar) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 09:58
S13 6	67	S122 and ((planar) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 12:56
S13 7	14	S122 and ((loop) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:07
S13 8	0	S122 and ((arc arcuate) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:07
S13 9	0	S122 and ((arc arcuate arch) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:07
S14 0	0	S122 and ((arc arcuate arch arching) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:07
S14 1	0	S122 and ((arc arcuate arch arching arches) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:08
S14 2	10	S122 and ((curve curving) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:08
S14 3	5	S122 and ((ring) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:09
S14 4	2	S122 and ((spiral) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:09

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S14 5	27	S122 and ((coil coiling) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:10
S14 6	2	S122 and ((coaxial co-axial) adj (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:10
S14 7	17	S122 and ((coaxial co-axial) with (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:10
S14 8	35	S122 and ((coplanar co-planar) with (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:13
S14 9	79	S122 and ((arc arcuate) with (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:18
S15 0	443	S122 and ((rotatable rotating rotated rotate) with (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 10:41
S15 1	3	S122 and ((expan\$4) with (concentric circular) with (heater resistor (heating adj element)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 11:23
S15 2	319	347/62.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 11:23
S15 3	0	S152 and (reliev\$4 with stress)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 11:23
S15 4	21	S152 and (reliev\$4 with bend\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 11:23

## EAST Search History

S15 5	12720	(relief relieving relievalance relieve) with (bending (thermal adj expansion) expansion bowing flexing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 13:02
S15 6	96	S155 and (printhead print-head (print adj head) (recording adj head) recording-head)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 13:03
S15 7	57	S156 and (heater heating-element (heating adj element) resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 13:03
S15 8	160292	(relief relieving relievalance relieve mitigat\$3 prevent\$3) with (bending (thermal adj expansion) expansion bowing flexing)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 14:34
S15 9	1512	S158 and (printhead print-head (print adj head) (recording adj head) recording-head)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 14:35
S16 0	505	S159 and (heater heating-element (heating adj element) resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 14:35
S16 1	272543	(relief relieving relievalance relieve mitigat\$3 prevent\$3) with (bending (thermal adj expansion) expansion bowing flexing stress)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 14:34
S16 2	2395	S161 and (printhead print-head (print adj head) (recording adj head) recording-head)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 14:35
S16 3	929	S162 and (heater heating-element (heating adj element) resistor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 14:44
S16 4	86	S163 and (coplanar coaxial concentric)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 14:41



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S16 5	155	S163 and (coplanar coaxial concentric arcuate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 14:41
S16 6	84	S163 and (arcuate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 14:43
S16 7	97	S163 and (serpentine)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 14:43
S16 8	90	S162 and ((heater heating-element (heating adj element) resistor) with serpentine)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 14:46
S16 9	340	S162 and ((heater heating-element (heating adj element) resistor) with expansion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/23 15:26
S17 0	1	("4827294").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2006/02/23 15:27